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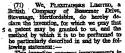
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This invention concerns improvements in 10 or relating to dispensing tube assemblies suitable to contain spreadable or gaste like substances such as adhesives, continents, creams, cosmetic materials, relishes, edible

creams, cosmeut materials; results, and the like.

According to the invention there is provided a dispensing tube assembly comprising a squeezable dispensing tube having a mozzle at one end and a removable closure. member for seld mozele, said closure mem-ber including a flexible, clongate, generally flat spreader blade which when the tube nozzle is closed by the closure member extends into the nozzle.

extense into the nezze.

Table need in the assembly according to this invention may be made wholly of a plastice material or may be extruded metal tubes arving integral metal nozzes or having plastice nozzles fitted thereto. In either

ing plastics nozzies illted thereto. Il eliner case the closure member will preferably be 30 mate of thermoplastics ratectarily and the property of the said closure mem-ber may be formed to engage over the nozzie of the table like a cap in which even 35 said blade which will extend from the in-side of the closure will first be isserted into the nozzie.

However it is preferred to have a ping type closure which engages in the nozzle 40 to close the tube, the flexible blade being connected to or integral with such plug type closure member. The blade serves also to prevent plugging of the nozzle due to possible hardening of the product.

The blade of a generally flat form

(71) We, FLEXITARIBES LIMITSO, a facilitates the spreading of communits flexusing. Heritain Company of Bossenner Divise, spreading of communits flexusings. Heritardeshire, do hereby declare the invention, for which we pray that a pattern may be granuled to us, and the method by which it is to be performed to the particularly described in and by the foll—drawn from the muzzle. The cleaver means the first flexus from the muzzle. The cleaver means the first flexus from the muzzle. The cleaver means the first flexus from the muzzle. The cleaver means the first flexus from the muzzle. The cleaver means the first flexus from the muzzle from the first flexus from the muzzle from the first flexus from the flexus from the first flexus from the first flexus from the first flexus flexus from the first flexus from the first flexus flexu ber will always be provided with means to provide a secure closure for the nozzle. Thus the plug may have one or more ribs 55 or detants adapted to make a snap fit in the mozzle. Alternatively the plug may fit tightly in the nozzle.

Preferably the nozzle is of such length and shape that when it is closed the blade 60 does not extend into the body of the tabe. does not extend muo into souty or time time.

If desired the outer end of the closure
member may be provided with a hole there
through or a anokilike portion to enable
the tube assembly to be hung up when not 65

One preferred embodiment of the invention by way of example only will now be described with reference to the accompanying drawings in which:

Rigure 1 is a side elevation of a closed

tabe according to the invention.
Figure 2 is an end elevation of the tube of Figure 1 with the closure member removed and

Figure 3 is a top plan view of the open tube of Figure 2.

A tube suitable particularly for adhesive paste is formed of polyethylene and com-prises a body 1, shoulders 2 and an integral 80 nozzle portion 3 of rectangular cross sec-tion and of tapered shape. The tube is tion and or tapered snape. The ture is scaled at 4 in a conventional manner after filling with product and the nozzle has a generally ablong aperture 5 therethrough.

A plug type closure member of polystiylene or suitable thermoplastics material

empleme or summe thermopassus material in provided. This member comprises a grippsble portion 6, shoulders 7 adapted to seat on the outer surface 8 of nozzle 3, a 90



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closure part 9 adapted to close securely aperture 5 and a flat fiexible blade 10 of a width slightly less than that of the aper-

time 5.

It will be seen that closure part 9 has a rib 11 on each side which makes a snap engagement in the aperture 5.

It will also be noted that the length of

blade 10 is such that when the tube is 10 closed, the tip of the blade will not extend beyond the shoulders 2 into the body of the tube.

A tube and closure has thus been pro-vided which can readily dispense desired 15 quantities of the contents which can then be spread over a surface prior to reclosing the tube.

WHAT WE CLAIM IS:-

 A dispensing tube assembly compris-ing a squeezable dispensing tube having a nozzie at one end and a removable closure member for said nozzie, said closure mem-ber including a fexible clongate generally 25 flat spreader blade which when the tube

nozzle is closed by the closure member ex-tends into the nozzle, 2. An assembly as claimed in claim 1, wherein said closure member is made of a

wherein said closure member is made of a thermoplastics material.

3. An assembly as claimed in claim 1 or 2, wherein said closure member is in the form of a cap shaped to engage over the nozzle of the tube to close said tube.

4. An assembly as claimed in claim 1 35 or 2, wherein said closure member is in or 2, wherein said closure member is in the form of a plug which engages in said nozzlo to close said tube.

5. An assembly as claimed in any pre-ceding claim, wherein said nozzlo has an 40

opening of similar shape to the cross sec-tion of said blade,

6. An assembly as claimed in claim 4, wherein the plug may have one or more ribs or detents adapted to make a map fit 45 in the nozzle,

An assembly as claimed in any pre-ceding claim wherein the nozzle is of such length and shape that when it is closed the blade does not extend into the body of the 50 tube.

 An assembly as daimed in any pre-ceding claim, wherein a hole extends through said closure member to enable said

tube to be hung up when not in use.

9. A dispensing tube assembly substantially as hereinbefore described with reference to and as shown in the accompanying drawings.

For the Applicants

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COMPLETE SPECIFICATION

1 SHEET

This drawing is a reproduction of the Original on a reduced scale

